

INFORMATION DISCLOSURE CITATION Form PTO-1449 (Modified) (Use several sheets if necessary)	ATTY. DOCKET NO. ARC-14281-3	SERIAL NO. 10/637,087
	APPLICANT Man M. Rai and Nateri K. Madavan	
	FILING DATE 31 July 2003	GROUP 2129

U.S. PATENT DOCUMENTS

Examiner Initial	Document Number	Date	Name	Class	Subclass	Filing Date If Appropriate

FOREIGN PATENT DOCUMENTS

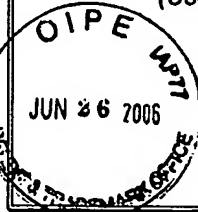
	Document Number	Date	Country	Class	Subclass	Translation	
						Yes	No



OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

JH	Drela, M., "Elements of Airfoil Design Methodology," in <i>Applied Computational Aerodynamics Progress in Astronautics and Aeronautics</i> , Vol. 125, pp. 167-189, 1990. P. A. Henne, Ed.
JH	Volpe, G., "Inverse Airfoil Design: A Classical Approach Updated for Transonic Applications," in <i>Applied Computational Aerodynamics, Progress in Astronautics and Aeronautics</i> , Vol. 125, pp. 191-220, 1990. P. A. Henne, Ed.
JH	Jameson, A., "Optimum Aerodynamic Design Using CFD and Control Theory," AIAA Paper, No. 95-1729-CP, 1995.

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JH	Narducci, R., Grossman, B., and Haftka, R. T., "Sensitivity Algorithms for an Inverse Design Problem Involving a Shock Wave," Inverse Problems in Engineering, Vol. 2, pp. 49-83, 1995.		
	Myers, R. H., and Montgomery, D. C., <i>Response Surface Methodology—Process and Product Optimization Using Designed Experiments</i> , John Wiley and Sons, New York, 1995.		
	Fan, X., Herbert, T., and Haritonidis, J. H., "Transition Control with Neural Networks," AIAA Paper No. 95-0674, AIAA 33 rd Aerospace Sciences Meeting, Reno, Nevada, January 9-12, 1995.		
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	Norgaard, M., Jorgensen, C. C., and Ross, J. C., "Neural Network Prediction of New Aircraft Design Coefficients," NASA TM 112197, May 1997.		
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	Hajela, P., and Berke, L., "Neural Networks in Structural Analysis and Design: An Overview," AIAA Paper No. 92-4805-CP, 4 th AIAA/USAF/NASA/OAI Symposium on Multidisciplinary Analysis and Optimization, Cleveland, Ohio, September 21-23, 1992.		
	Huang, S. Y., Miller, L. S., and Steek, J. E., "An Exploratory Application of Neural Networks to Airfoil Design," AIAA Paper No. 94-501, AIAA 32 nd Aerospace Sciences Meeting, Reno, Nevada, January 10-13, 1994.		
	Sanz, J.M., "Development of a Neural Network Design System for Advanced Turbo-Engines," Fourth U.S. National Congress on Computational Mechanics, August 7-8, 1997, San Francisco, California.		
↓	Rai, M. M., and Madavan, N. K., "Application of Artificial Neural Networks to the Design of Turbomachinery Airfoils," AIAA Paper No. 98-1003, AIAA 36 th Aerospace Sciences Meeting Reno, Nevada, January, 1998.		
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JH 	Pierret, S., and Van den Braembussche, R. A., "Turbomachinery Blade Design Using a Navier-Stokes Solver and Artificial Neural Network," <i>Journal of Turbomachinery</i> , Vol. 121, pp. 326-332, 1999.		
	Barron, A. R., "Approximation and Estimation Bounds for Artificial Neural Networks," <i>Machine Learning</i> , VOL. 14, pp. 115-133, 1994.		
	Montgomery, D. C., <i>Design and Analysis of Experiments</i> , John Wiley and Sons, New York, 1997.		
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	Rai, M. M., and Madavan, N. K., "Aerodynamic Design Using Neural Networks," AIAA Paper No. 98-4928, Seventh AIAA/USAF/NASA/ISSMO Symposium on Multidisciplinary Analysis and Optimization, St. Louis, MO, September 2-4, 1998.		
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EXAMINER /Joseph Hirl/ (09/06/2006)	DATE CONSIDERED		
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